

Ship March 4.

Work Order ID 140902

140902

Page 1

January 22, 2016 1:48:57 PM

Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016 Start Qty: 2.00

2

Cust Item ID:

Required Date: 3/4/2016 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan:

Date:

20160122

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

646.4000

B

100

Document Control

0.00

DAS
9-89

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.4001

DAS
27
9-89

MAR 14 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
6
9-89

DAS
28
9-89

FEB 09 2016

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
27
9-89

MAR 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

Work Order ID 140902

140902

Page 2

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Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System
 Start Date: 1/22/2016 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 3/4/2016 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00				BAS 27 9-89			
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

MAR 14 2016

MAR 15 2016

MAR 15 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY																																																																																																																											
Environment	☐	Design	☐	Doc/Data	☐	Equip/Tooling	☐	Handling/Pre	☐	Material	☐	Internal Transport	☐	Tribal Knowledge	☐	LOA	☐	Substation	☐	Past Expiry Date	☐	Misidentified	☐	No Re-verification	☐	Operator	☐	Offset/Setup	☐	Supplier	☐	Training	☐	Use for Testing	☐	Poor Information	☐	Rushing	☐	Product Improvement	☐	Process Improvement	☐	Manufacturing Process	☐	Past Due	☐	Pressure/Forced	☐	Bending	☐	Centre Not Concentric	☐	Cracks	☐	Crimp/Kink/Ripple/Wave	☐	Cuffs	☐	Crushing	☐	Heat Treat	☐	Wave/Twist in Tube	☐	Marks/Chatter	☐	Temperature/Cure	☐	Set-up	☐	BOM/Route	☐	Broken/Damage/Defect	☐	Inspection Incomplete/Unqualified	☐	Contamination	☐	Countersink	☐	Cut Too Short	☐	Instructions Incomplete/Unclear	☐	Drill Holes	☐	Power Loss/Surge	☐	Folio/Program	☐	Grain	☐	Weld	☐	Wrong Stock Pulled	☐	Out of Sequence	☐	Off-set	☐	Mislabeled	☐	Fit/Function	☐	Misaligned/off center	☐	Positioned Wrong	☐	Outside Dimensions	☐	Over/Under tolerance	☐	Part Incorrect	☐	Part Lost/Missing	☐	Part Moved	☐	Drawing	☐	Finish	☐	Misread	☐	Turning Sequence	☐
OTHER : ☐																																																																																																																															

Picklist Print

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January 22, 2016 1:49:02 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301		Manufactured	No				Each	5.0000	**	2		DAS 6 9-89	DAS 28 9-89

646.3301

Upper Cutter Assy

Location

Loc Qty

Loc Code

cck018

5

136497

2

140115

3

DAS
6
9-89

DAS
28
9-89

646.3001

Manufactured

No

Each

0.0000

646.3001

Lower Cutter Assy

646.2910

Manufactured

No

Each

3.0000

646.2910

Deflector

Location

Loc Qty

Loc Code

CCK050

3

136136

3

DAS
6
9-89

DAS
28
9-89

646.3810

Manufactured

No

Each

0.0000

646.3810

Bracket

646.3510

Manufactured

No

Each

1.0000

646.3510

Strut

Location

Loc Qty

Loc Code

cck104

1

136114

1

FEB 27 2016

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Page 2

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3511 Manufactured No

Each 0.0000

646 3511

Strut 27 9-89

**

2
140125

DAS 28
6 9-89

647.0112 Manufactured No

Each 65.0000

647 0112

Strut Bracket

**

~~140786~~

DAS 28
6 9-89

Location

Loc Qty

Loc Code

CCK107

65

M130388

65

647.7703 Manufactured No

Each 10.0000

647 7703

Strut Assembly

**

2
140786

DAS 28
6 9-89

Location

Loc Qty

Loc Code

CCK114

10

139295

10

NAS1149F0332P Purchased No

Each 1,333.000

NAS1149F0332P

Washer

**

276
134055

DAS 28
6 9-89

Location

Loc Qty

Loc Code

GA

458

m133709

458

ST262

875

m133709

75

m133938

800

DAS 27 9-89

160216 NAS1149F0363P

DAS 27 9-89

124555

DAS 6 9-89

FEB 27 2016

DAS 28 9-89

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS21042L3

Purchased

No

Each

2,836.000

MS21042L3

Nut

60

122

**

134039

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

478

m133790

478

DAS
27
9-89

646.3110

Manufactured

No

Each

3.0000

6463110

Channel

**

2

140111

DAS

DAS

6

28

9-89

9-89

Location

Loc Qty

Loc Code

cck020

3

136492

3

Each

10.0000

**

2

DAS

DAS

6

28

9-89

9-89

646.3710

Manufactured

No

6463710

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK002

10

127550

10

Each

5.0000

**

2

FEB 27 2016

646.3210

Manufactured

No

6463210

Support

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

5

136217

5

**

2

140186

DAS

DAS

6

28

9-89

9-89

MAR 08 2016

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January 22, 2016 1:49:02 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3713 Manufactured No

Each 13.0000

646 3713

Gusset

**

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

cck105

13

120631

1

138216

12

MS24694-S51

Purchased No

Each 236.0000

MS24694-S51

Screw

**

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

ST284

236

m130928

36

m133990

200

AN3-13A

Purchased No

Each 37.0000

AN3-13A

Bolt

**

DAS

6

DAS

9-89

28

9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

14

m131305

14

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

AN3-4A Purchased No

Each 342.0000

AN3-4A

Bolt

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

over003

250

m133990

250

ST350

92

m129682

10

m133694

82

DAS
27
9-89

CR3213-5-3 Purchased No

Each 116.0000

CR3213-5-3

Cherry Rivet

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

DAS
27
9-89

MS20470AD5-5.5 Purchased No

Each 87.0000

MS20470AD5-5.5

Rivet

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST309

87

123425

87

Each

21.0000

DAS
27
9-89

646.3711 Manufactured No

646.3711

Clip

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck105

21

120626

21

DAS
27
9-89

FEB 27 2016

Picklist Print

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3712

Manufactured No

Each

11.0000

646 3712

Clip

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

11

101119

1

120630

10

Each

7.0000

646.3811

Manufactured No

646 3811

Radius Block

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

7

122938

7

Each

229.0000

AN3-6A

Purchased No

AN3-6A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

225

M133561

100

M133932

125

ST306

4

M131305

4

Each

130.0000

MS24694-S55

Purchased No

MS24694-S55

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST283

130

m132803

47

m133988

83

DAS
28
9-89

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Picklist Print

Page 7

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3610 Manufactured No

Each 0.0000

646 3610

Filler

646.3714 Manufactured No

Each 3.0000

646 3714

Gusset

**

**

DAS
6
9-89
DAS
28
9-89

140240

140048

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

MS20470AD5-6 Purchased No

Each 968.0000

MS20470AD5-6

RIVET

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

3

120632

3

Each

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

78

105433

78

Each

1.0000

646.3812 Manufactured No

646 3812

Gusset Bracket

**

DAS
6
9-89
DAS
28
9-89

140058

DAS
27
9-89

AN3-3A Purchased No

Each 271.0000

AN3-3A

Bolt

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

271

m131624

101

m133833

70

m134034

100

FEB 27 2016

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Shop Packet Print

DAS
6
9-89
Page 7

Picklist Print

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Page 8

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3813 Manufactured No

Each 6.0000

646 3813

Strut Bracket

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

CCK106

127453

138267

Loc Qty

6

1

5

Loc Code

MS20470AD5-7

Purchased No

Each

509.0000

MS20470AD5-7

Rivet

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

ST309

123425

Loc Qty

509

509

Each

143.0000

MS21047-3

Purchased No

MS21047-3

Nut Plate

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

over005

m133938

ST301

m133790

Loc Qty

100

100

43

43

Each

388.0000

CCR264SS3-02

Purchased No

CCR264SS3-02

Rivet, Cherry

**

FEB 27 2016

DAS
27
9-89

Location

ST321

M133790

M134023

Loc Qty

388

188

200

Loc Code

DAS
6
9-89

FEB 10 2016

DAS

28

9-89

Picklist Print

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

AN3-5A Purchased No

Each 104.0000

AN3-5A

Bolt

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

24

m133686

24

ST350

80

m133686

80

FEB 19 2016

646.3715

Manufactured No

Each 19.0000

6463715

Strut Doubler

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

19

139892

19

MS27039-1-12

Purchased No

Each 191.0000

MS27039-1-12

Screw

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

100

m133988

100

ST280

91

m133483

91

FEB 19 2016

646.3716

Manufactured No

Each 7.0000

6463716

Gauge Bracket

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

7

136410

7

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS20426AD5-7

Purchased

No

Each

1,059.000

MS20426AD5-7

RIVET

DAS
27
9-89

Location

Loc Qty

Loc Code

ST311

1059

M132767

16

M133922

1043

Each

58.0000

DAS
6
9-89

DAS
28
9-89

MS24694-S54

Purchased

No

MS24694-S54

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

58

m133134

58

Each

375.0000

DAS
6
9-89

DAS
28
9-89

MS27039-1-21

Purchased

No

MS27039-1-21

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

134

m127904

134

Each

172.0000

DAS
6
9-89

DAS
28
9-89

MS27039-1-20

Purchased

No

MS27039-1-20

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

172

124326

172

DAS
6
9-89

DAS
28
9-89

FEB 10 2016

Picklist Print

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS27039-1-19

Purchased

No

Each

204.0000

** 22-44

DAS
6
9-89

DAS
28
9-89

MS27039-1-19

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

100

m133932

100

ST280

104

m133134

4

m133938

100

FEB 19 2016

646.3717

Manufactured

No

Each

2.0000

** 2
138175

DAS
6
9-89

DAS
28
9-89

6463717

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

2

120633

2

646.3718

Manufactured

No

Each

13.0000

** 2-4

DAS
6
9-89

DAS
28
9-89

6463718

Custom Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

13

136223

13

646.3719

Manufactured

No

Each

19.0000

** 2-4

DAS
6
9-89

DAS
28
9-89

6463719

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

19

139893

19

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Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS27039-1-10

Purchased

No

Each

148.0000

MS27039-1-10

SCREW

**

24
134166

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

57

m132677

57

AN3-11A

Purchased

No

Each

195.0000

AN3-11A

Bolt

**

12 20

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

95

m133561

95

10

FEB 19 2016

600.0990

Purchased

No

Each

26.0000

6000990

Magnabond 6398 Part A

**

1 2

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

14

M133938

12

M131589

2

2/11/2016

1

DAS
27
9-89

15/07/2016

Picklist Print

January 22, 2016 1:49:03 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

600.0991

Purchased

No

Each

26.0000

600 0991

MAGNOBOND 6398 PART B

**

DAS

6

DAS

28

9-89

15/04/2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

14

m133938

12

m131589

2

2/11/2016

600.1012

Purchased

No

Each

25.0000

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS

6

9-89

DAS

28

9-89

SEP 09 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

cck017

24

m133800

8

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

600.0129

Purchased

No

f

501.0000

600 0129

VHB TAPE 75935A651

**

16

DAS

6

9-89

DAS

28

9-89

FEB 19 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK095

501

m127920

301

m131311

200

Picklist Print

January 22, 2016 1:49:03 PM

Page 15

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

646.3913

Manufactured No

Each

100.0000

646 3913

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

19

124108

19

Each

87.0000

**

DAS
6
9-89

FEB 27 2016

DAS
28
9-89

AN3-12A

Purchased No

AN3-12A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

2

m129682

2

ST349

85

m133064

16

m133234

69

Each

318.0000

**

DAS
6
9-89
DAS
28
9-89

MS27039-1-16

Purchased No

MS27039-1-16

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

318

m131317

18

mm134023

300

Each

13.0000

**

DAS
6
9-89

DAS
28
9-89

650.9201

Manufactured No

650 9201

Eyelet Bracket Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

cck127

13

136606

13

**

DAS
6
9-89

FEB 11 2016

DAS
28
9-89

January 22, 2016 1:49:03 PM

Shop Packet Print

Page 15

Picklist Print

January 22, 2016 1:49:03 PM

Page 16

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

AN44-5A

Purchased

No

Each

26.0000

**

2 4

6 9-89

DAS 28 9-89

AN44-5A

Eyebolt

Location

Loc Qty

Loc Code

ST339

26

m133134

2

m133790

12

m133990

12

DAS 27 9-89

AN665-34R

Purchased

No

Each

48.0000

**

7 4

DAS 6 9-89

DAS 28 9-89

AN665-34R

Clevis

Location

Loc Qty

Loc Code

ST330

48

M133523

28

M134029

10

st330

10

DAS 27 9-89

AN4C7A

Purchased

No

Each

106.0000

**

2 4

DAS 28 9-89

AN4C7A

BOLT

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

16

m133363

16

ST345

70

m133790

20

m133990

50

DAS 27 9-89

DAS 6 9-89
FEB 09 2016

Picklist Print

January 22, 2016 1:49:03 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0432P

Purchased

No

Each

1,618.000

NAS1149F0432P

WASHER

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

493

~~M133938~~

493

st268

125

~~M132677~~

125

Each

2,182.000

**

133738X4

DAS
6
9-89

DAS
28
9-89

MS21042L4

Purchased

No

Each

2,182.000

MS21042L4

Locknut

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST303

2018

m133769

2018

ST305

97

m130922

97

Each

79.0000

**

DAS
6
9-89

DAS
28
9-89

AN316C4R

Purchased

No

Each

79.0000

AN316C4R

NUT

DAS
27
9-89

Location

Loc Qty

Loc Code

ST331

79

m133234

43

m133523

36

**

DAS
6
9-89

DAS
28
9-89

FEB 09 2016

Picklist Print

Page 18

January 22, 2016 1:49:03 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS21042-3 MS21042L3 Purchased No

Each 18.0000

MS21042-3

Nut / use MS21042L3

**

134039

DAS 6 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

Each

318.0000

**

MS27039-08-13

Purchased

No

MS27039-08-13

Screw

DAS 27 9-89

Location

Loc Qty

Loc Code

ST278

318

124326

318

Each

33.0000

**

133922

DAS 6 28 9-89

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

DAS 27 9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

3,821.000

**

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1590

M133709

1590

DAS 6 28 9-89

FEB 09 2016

January 22, 2016 1:49:03 PM

Shop Packet Print

Page 18

Picklist Print

Page 19

January 22, 2016 1:49:03 PM

Work Order ID: 140902

140902

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 3/4/2016

Start Qty: 2.00

Required Qty: 2.00

MS24693-C278

Purchased

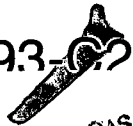
No

Each

75.0000

MS24693-C278

Screw



DAS
27
9-89

Location

ST287

Loc Qty

75

Loc Code

75

Each

0.0000

**



DAS 6 28
9-89 9-89
FEB 09 2016

646.9410

Manufactured

No

m133998

646 9410

Shim

*OK to ship without Shim
WF 16-3-14*

**

5
1-2

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 7593A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE
SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78
SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY
REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 &
F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

5	5	5	78	601.3875	SCREW	MS24694554	
1	1	1	77	646.9410	SHIM		
	4	4	76	601.2764	WASHER	NAS1149F032P	
	2	2	75	601.2973	LOCKNUT	MS21042-08	
	2	2	74	601.2988	SCREW	MS27039-0813	
	2	2	73	601.2943	LOCKNUT	MS21042-3	
	2	2	72	601.3128	NUT	AN316C4R	
	2	2	71	601.3209	LOCKNUT	MS21042L4	
	4	4	70	601.2638	WASHER	NAS1149F0403P	
	2	2	69	601.2669	BOLT	AN4C7A	
	2	2	68	601.3119	CLEVIS	AN665-34R	
	2	2	67	601.3121	EYE BOLT	AN44-5A	
	2	2	66	650.9201	EYE BRACKET ASSY		
REF	REF	REF	65	647.5701	GPS MOUNT KIT		
		2	64	601.3151	WASHER	NAS1149F03A3P	
		2	63	601.2911	SCREW	MS24694553	
	24	24	62	601.2637	SCREW	MS27039-1-16	
2	2	2	61	601.2763	BOLT	AN3-12A	
	1	1	60	646.3913	SHIM		
	4	4	59	646.3912	SHIM		
	1	1	58	646.3911	SHIM		
	4	4	57	646.3910	SHIM		
	5	5	56	600.1013	PRIMER		
	8 FT	8 FT	55	600.0129	VHB TAPE		
	1	1	54	600.1012	SEALANT	PR-1425 CLASS B	
	1	1	53	600.0991	MAGNIBOND 639B PART B		
	1	1	52	600.0990	MAGNIBOND 639B PART A		
6	10	10	51	601.2826	BOLT	AN3-11A	
		2	50	646.3814	WIPER BRACKET		
		2	49	601.2910	SCREW	MS27039-1-1B	
	2		48	601.1365	SCREW	MS27039-1-10	
	2		47	646.3719	DOUBLER		
		2	46	646.3718	CUSTOM WASHER		
	1		45	646.3717	DOUBLER		
		22	44	601.1948	SCREW	MS27039-1-19	
		2	43	601.1952	SCREW	MS27039-1-20	
	4		42	601.1956	SCREW	MS27039-1-21	
4006	4005	4004	4003	4002	4001	FIND #	PART #
							DESCRIPTION
							MATL
							SPEC.

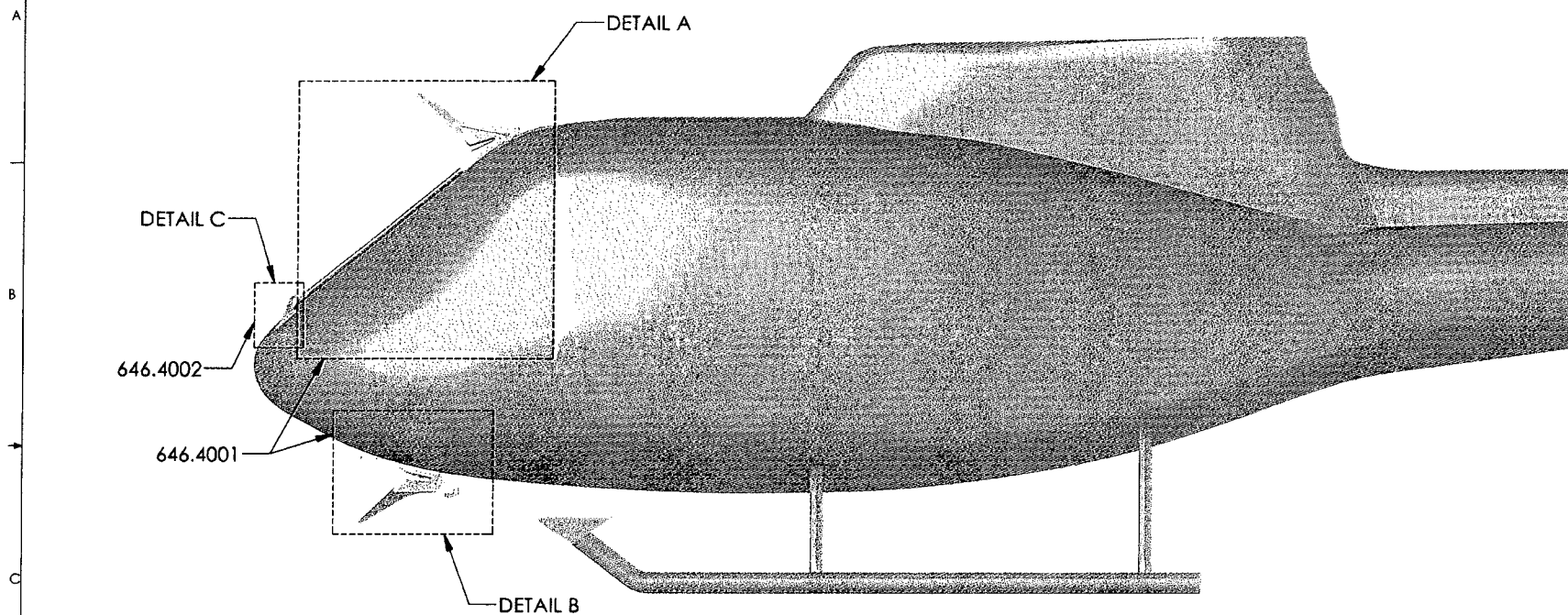
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHS 02195, 02311, 02719 & 02765	02/06/2010	P. BRAVO
B	INCORPORATED ECH 03046, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECH 05098	09/09/2015	P. BRAVO

	2	2	41	601.2829	SCREW	MS24694554	
	2	2	40	601.2831	RIVET	MS20426A05-7	
	1	1	39	646.3716	GAUGE BRACKET		
	6	6	38	601.1953	SCREW	MS27039-1-12	
	2	2	37	646.3715	STRUT DOUBLER		
2	2	2	36	601.2824	BOLT	AN3-5A	
12	36		35	601.2277	RIVET	CCR26483-3-02	
6	18		34	600.0795	NUTPLATE	MS21047-3	
3	3		33	601.2565	RIVET	MS20470A05-7	
1	1		32	646.3813	STRUT BRACKET		
4	4		31	601.2822	BOLT	AN3-3A	
2	2		30	646.3812	GUSSET BRACKET		
8	8		29	601.2564	RIVET	MS20470A05-6	
1	1		28	646.3714	GUSSET		
1	1		27	646.3610	FILLER		
3	3		26	601.2830	SCREW	MS24694555	
2	2		25	601.2825	BOLT	AN3-6A	
1	1		24	646.3811	RADIUS BLOCK		
1	1		23	646.3712	CLIP		
1	1		22	646.3711	CLIP		
8	8		21	601.2832	RIVET	MS20470A05-5.5	
14	14		20	601.2020	RIVET	CR3213-5-3	
4	6	4	19	601.2823	BOLT	AN3-4A	
1	1		18	601.2827	BOLT	AN3-13A	
5	5		17	601.2912	SCREW	MS24694551	
1	1		16	646.3713	GUSSET		
1	1		15	646.3210	SUPPORT		
1	1		14	646.3710	DOUBLER		
1	1		13	646.3110	CHANNEL		
14	10	8	53	601.1624	LOCKNUT	MS21042L3	
16	32	18	120	601.1607	WASHER	NAS1149F032P	
			10	646.3410	LH WIPER DEFLECTOR		
			9	646.3411	RH WIPER DEFLECTOR		
		2	8	647.7703	STRUT ASSY		
		2	7	647.0112	STRUT BRACKET		
1	1	1	6	646.3511	STRUT		
1	1	1	5	646.3510	STRUT		
2	2		4	646.3810	BRACKET		
		1	3	646.2910	DEFLECTOR		
1	1	1	2	646.3001	LOWER CUTTER ASSY		
		1	1	646.3301	UPPER CUTTER ASSY		
X				646.4006	LOWER CUTTER FIXED PROVISIONS		
X				646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
	X			646.4004	FIXED PROVISIONS KIT		
		X		646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
			X	646.4002	AS350 WIPER DEFLECTOR KIT		
			X	646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FIND #	PART #
							DESCRIPTION
							MATL
							SPEC.

QTY	DESCRIPTION	MATL	SPEC.
NEXT ASSY (\$)	ORIGINAL DATE (M/D/Y)	06-27-08	
	DRAWN BY	01/01/08	
	CHECKED BY	P. BRAVO	
	DRAWING APPROVAL		
	DATE	06/27/08	
	CONTRACT NO.		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .0010 3 PLACE DECIMALS .0005 ANGLES ± .5°		
	SEE B		
	SEE CAGE CODE	646.4000	
	SCALE	NONE	
	SHEET	1 OF 5	

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA 92081
(760) 724-5300
APICAL INDUSTRIES, INC.
DBA DART AEROSPACE
AS350 CABLE CUTTERS KIT

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
 DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
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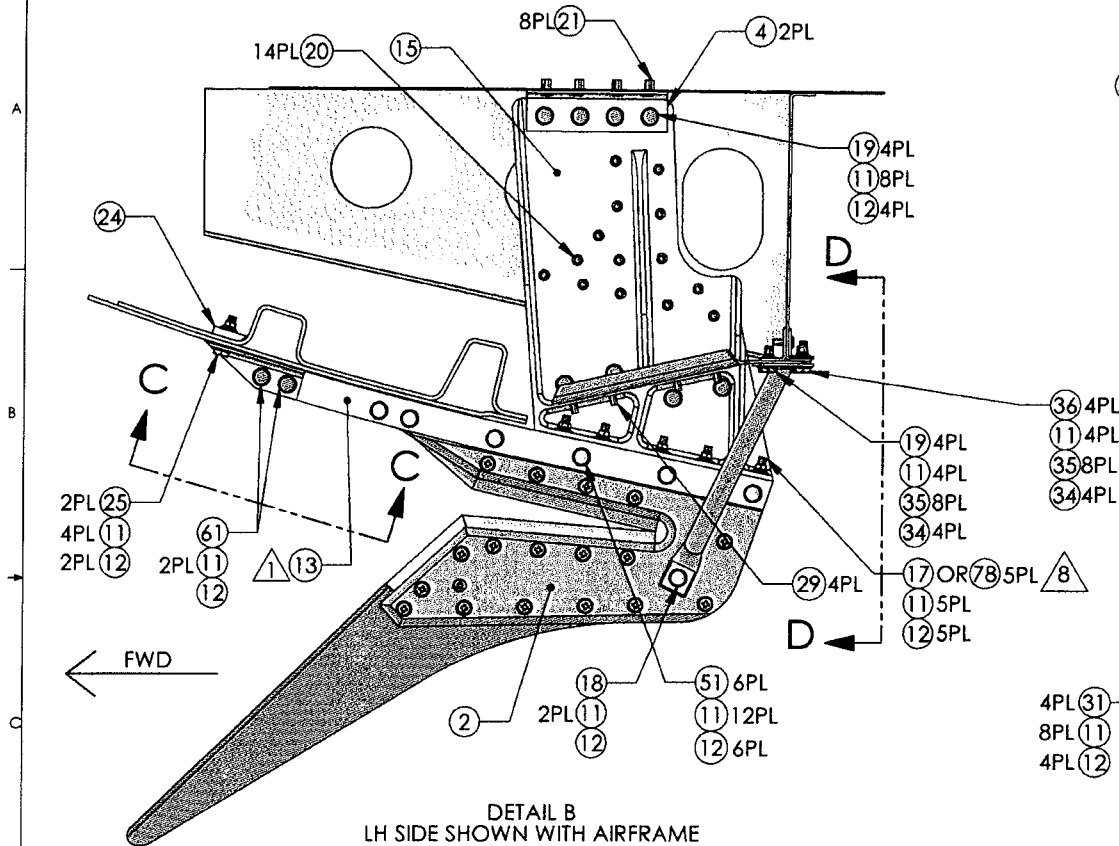


ORIGINAL DATE 11-01-1981 09-27-88		DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300	
DRAWN BY S. HUFT		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± 0.010 3 PLACE DECIMALS ± 0.005 ANGLES ± 3°		SHEET B	REV. C
SCALE NONE		SHEET 2 OF 5	

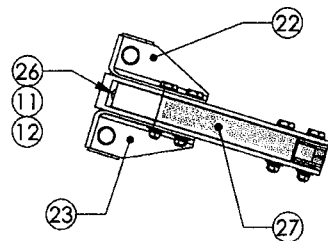


ORIGINAL DATE (MO-DA-YR)	06-27-08	 DART AEROSPACE AEROSPACE INDUSTRIES INC. 3030 ENTERPRISE CT SUITE A VISTA, CA 92081 (761)-724-3300	ASS350 CABLE CUTTERS KIT	
DRAWN BY	CHICHER J. HOFF			P. BRAVO
DRAWING APPROVAL				
P. BRAVO	06-27-08			
CONFIDENTIAL No.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: .125" DECIMALS ±.01 .001" DECIMALS ±.001 .001" DECIMALS ±.001				
SIZE	CAGE CODE	DWG. NO.	REV. C	
	07 M736	646 4000		
SCALE		NONE	SHEET 3 OF 5	

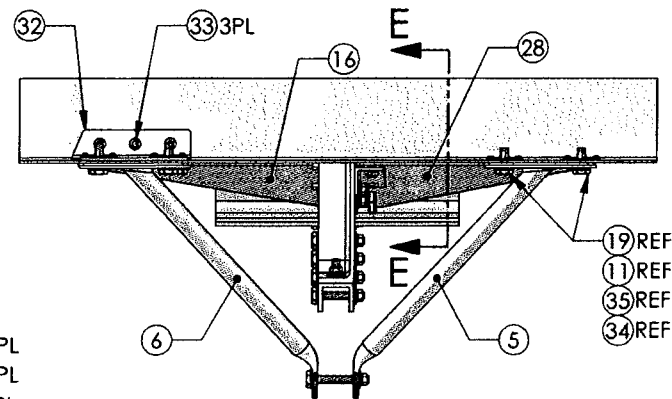
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



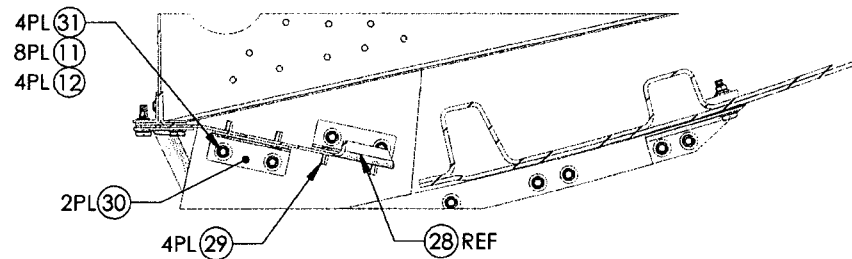
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



SECTION D-D
CUTTER HIDDEN FOR CLARITY

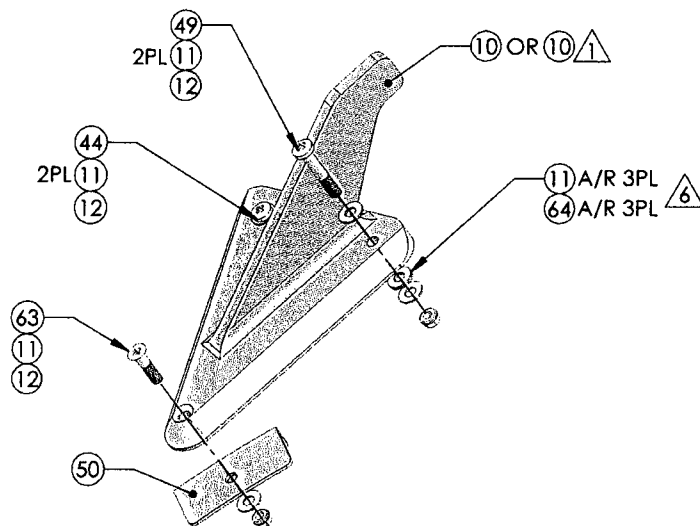


SECTION E-E

ORIGINAL DATE 10-02-19 08-27-08		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKED P. BRAVO	APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 08-27-08 CONTRACT NO.		AS350 CABLE CUTTERS KIT	
REV B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 4 OF 5	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.010
3 PLACE DECIMALS ±.005
ANGLES ±.5°

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 DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
 WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL C
 LH SHOWN EXPLODED
 RH OPPOSITE

ORIGINAL DATE JMC-00-109 06-27-08	 DART AEROSPACE 3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES INC. DBA DART AEROSPACE		
DRAWN BY S. HUFF		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO 06-27-08			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACES DECIMALS ±.015 3 PLACES DECIMALS ±.005 ANGLES ±.5°			
AS350 CABLE CUTTERS KIT			
SHEET 8	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 5 OF 5	



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED
BY

J. BECKER

DATE: 02/04/16

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: REVISED F/N 12.

ECR:

N/A

ACTION ITEM:

1. N/A

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

